



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 1 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAKED**

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

MIS 530

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M303R2.000	303 ROUND BAR 2"	6/20/2014 Yes 6/20/2014		12.00 f	\$24.34	\$292.10

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582  
NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$292.10

2	M304S18GA	304/316 .050 Sheet	6/20/2014 Yes 6/20/2014		280.00 sf	\$4.02	\$1,126.27
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MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH  
AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)  
OR ASTM A240 OR ASME SA240

Line Total: \$1,126.27

PO Instructions: ORDER # pec ST-690905  
ORDER # pec ST-691703

Note:

6/11/2014



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Hawkesbury, ON K6A 1K7  
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## PURCHASE ORDER

Purchase Order ID: PO24565

Purchase Order Date: 6/11/2014

PO Print Date: 6/11/2014

Page Number 2 of 7

**Order From :**  
VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Ship To Contact**  
**Ship To Phone**

**Ship Via:** VENDOR'S TRUCK  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** FCA - (Free Carrier)

3	M304S20GA	304/316 .040 Sheet	6/20/2014	96.00	✓	\$2.75	\$264.00
			Yes	sf			
			6/20/2014				

MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH  
AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)  
OR ASTM A240 OR ASME SA240

**Line Total:** \$264.00

4	M5052H32S.040	5052-H32 .040 Sheet	6/20/2014	80.00	/	\$1.01	\$80.55
			Yes	sf			
			6/20/2014				

MATERIAL: 5052-H32 ALUMINUM SHEET AS PER  
QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

**Line Total:** \$80.55

5	M6061T6R3.250	6061-T6 RD BAR 3.250"	6/20/2014	6.00	✓	\$21.70	\$130.20
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160  
OR ASTM B211 OR ASTM B221

*P 004/5/14*

**PO Instructions:** ORDER # pec ST-690905  
ORDER # pec ST-691703

**Note:**

6/11/2014



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Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 3 of 7

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

<b>Contact Name</b>		<b>Buyer</b>	Chantal Lavoie
<b>Vendor Phone</b>	905 669 9444	<b>Customer POID</b>	
		<b>Customer Tax #</b>	10127-2607
<b>Ship To Contact</b>		<b>Terms</b>	Net 30
<b>Ship To Phone</b>		<b>Currency</b>	CAD
<b>Ship Via:</b>	VENDOR'S TRUCK	<b>FOB</b>	FCA - (Free Carrier)
<b>Ship Acct:</b>			

**Line Total:** \$130.20

6	M6061T6R0.625	6061-T6 Round Bar .625"	6/20/2014	36.00	✓	\$0.82	\$29.52
			Yes	f			
			6/20/2014				

MATERIAL:6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160  
OR ASTM B211 OR ASTM B221

**Line Total:** \$29.52

7	M6061T6R1.000	ROUND BAR 1.00"	6/20/2014	24.00	✓	\$1.85	\$44.40
			Yes	f			
			6/20/2014				

MATERIAL:6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160  
OR ASTM B211 OR ASTM B221

**Line Total:** \$44.40

**PO Instructions:** ORDER # pec ST-690905  
ORDER # pec ST-691703

**Note:**

6/11/2014



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## PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 4 of 7

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 905 669 9444

**Ship To Contact**

**Ship To Phone**

**Ship Via:** VENDOR'S TRUCK

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

8	M6061T6B0.375X01.250	6061-T6 Bar .375 x 1.25	6/20/2014	20.00	✓	\$1.56	\$31.12
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$31.12

9	M6061T6B0.750X08.000	6061-T6 BAR .750" X 8.00"	6/20/2014	12.00	✓	\$19.13	\$229.50
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$229.50

10	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	6/20/2014	12.00	✓	\$15.05	\$180.60
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**PO Instructions:** ORDER # pec ST-690905  
ORDER # pec ST-691703

**Note:**

6/11/2014



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## PURCHASE ORDER

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Purchase Order Date 6/11/2014

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Page Number 5 of 7

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444  
  
Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Buyer  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB FCA - (Free Carrier)

Line Total: \$180.60

11	M6061T6B2.000X03.500	6061-T6 Bar 2.00 x 3.50	6/20/2014	12.00		\$17.68	\$212.10
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$212.10

12	M6061T6B1.500X02.500	6061-T6 Bar 1.50 x 2.50	6/20/2014	12.00		\$9.28	\$111.30
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$111.30

PO Instructions: ORDER # pec ST-690905  
ORDER # pec ST-691703

Note:

6/11/2014



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## PURCHASE ORDER

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Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 6 of 7

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 905 669 9444

**Ship To Contact**

**Ship To Phone**

**Ship Via:** VENDOR'S TRUCK

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

13	M6061T6B2.500X03.500	6061-T6 Bar 2.50 x 3.50	6/20/2014	12.00		\$21.53	\$258.30
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$258.30

14	M7075T6B6.000X0.250	7075-T6 BAR 6.000" X 0.250"	6/20/2014	24.00		\$12.67	\$304.00
			Yes	f			
			6/20/2014				

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-A-200/11 OR CUT FROM PLATE QQ-A-250/12

**Line Total:** \$304.00

15	M2024T3S.080	2024-T3 .080 sheet	6/20/2014	96.00		\$5.00	\$479.60
			Yes	sf			
			6/20/2014				

MATERIAL: 2024-T3 ALUMINUM SHEET  
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037  
OR ASTM B209

**PO Instructions:** ORDER # pec ST-690905  
ORDER # pec ST-691703

**Note:**

6/11/2014



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## PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 7 of 7

**Order From :**  
VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 905 669 9444

**Ship To Contact**

**Ship To Phone**

**Ship Via:** VENDOR'S TRUCK

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

**Line Total:** \$479.60

16	M6061T6S.040	6061-T6 .040 Sheet	6/20/2014	288.00	\$2.06	\$593.10
			Yes	sf		
			6/20/2014			

*Nec 192*

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER  
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027  
OR ASTM B209

**Line Total:** \$593.10

17	71401-45	PROCUREMENT QUALITY CLAUSES	6/20/2014	1.00	\$0.00	\$0.00
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No

Procurement Quality Clauses

6/20/2014

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

**Line Total:** \$0.00

**PO Total:** \$4,366.65

**PO Instructions:** ORDER # pec ST-690905  
ORDER # pec ST-691703

*cx u*

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

**Change Nbr:** 1

**Change Date:** 6/11/2014

27

B I L L O F L A D I N G

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 883157  
Ship Date 18 Jun 14 at 13:54 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7

Ship To: ( 1)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-692369- 1 Your PO # 24565  
ALUMINUM PLATE 7075-T651

Quantity	PCS	Wt LBS
12.00 SFT	2	45

2) Our Order PEC-692369- 2 Your PO # 24565  
ALUMINUM SHEET 2024 -T3

Quantity	PCS	Wt LBS
96.00 SFT	2	110

3) Our Order PEC-692369- 3 Your PO # 24565  
ALUMINUM SHEET 6061 T6

Quantity	PCS	Wt LBS
192.00 SFT	4	108

Tags	PCS	LBS
3	8	263

Heat Number  
678151A2

\*\*\* Chemical Analysis \*\*\*

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

Page: 1 ....Continued

1 Plancher R-351  
2 crate R-134

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.



## B I L L O F L A D I N G

No: PEC 883157

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 18Jun14 at 13:54 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

## B I L L O F L A D I N G

\*\*\*\*\*  
\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

TOTAL 1 BDL, 2 SKIDS G.W. 555 LBS

ITEM (1) BDL  
ITEM (2) SKID  
ITEM (3) SKID

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*  
\*\*\*\* TEL. 800-926-2600 \*\*\*\*  
\*\*\*\*\*  
\* WE STOCK STAINLESS STEEL \*  
\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*  
\*\*\*\*\*  
\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 2 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Friday, June 20, 2014 2:45:55 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO24565 Receipt Dates from 6/20/2014 to 6/20/2014 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty/ (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO24565	14		M7075T6B6.000X0.2 f 50		6/20/2014	6/20/2014	24.0000	\$11.68	0.0000	0	\$280.38
CAD	No		7075-T6 BAR 6.000" f X 0.250" m129584		24.0000	DESJ02		\$280.38	0.0000	0	
	15		M2024T3S.080	sf	6/20/2014	6/20/2014	96.0000	\$4.61	0.0000	0	\$442.34
	No		2024-T3 .080 sheet m129584	sf	96.0000	DESJ02		\$442.34	0.0000	0	
	16		M6061T6S.040	sf	6/20/2014	6/20/2014	192.0000	\$1.90	0.0000	0	\$364.68
	No		6061-T6 .040 Sheet m129584	sf	288.0000	DESJ02		\$364.68	0.0000	0	
Total Received Quantity:										312.0000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$1,087.40	
Total Balance Due Quantity:										96.0000	

# Receiving Report

Date: 14/6/20

Batch No: M129584

Supplier: THYSSSEN

Dart P/O: 24560

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒  
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection 14/06/20 N/A ☐  
 Work Order ☐ N/A ☐

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
<u>M606156540</u>		<u>288</u>	<u>192</u>	<u>96</u>			

Initials of Receiver

QC12

Production/Admin:

Date \_\_\_\_\_

Received/Costing \_\_\_\_\_

Initial \_\_\_\_\_

Location \_\_\_\_\_

# KAISER ALUMINUM FABRICATED PRODUCTS

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

CUSTOMER PO NUMBER: 5400215135-20		WORK PACKAGE:		CUSTOMER PART NUMBER: ALFLR00983-48.5		PRODUCT DESCRIPTION: Sawed Plate	
KAISER ORDER NUMBER: 1169391	LINE ITEM: 2	SHIP DATE: 04/25/2014	ALLOY: 7075		CLAD: BARE	TEMPER: T651	
WEIGHT SHIPPED: 4891 LB	QUANTITY: 27 PCS EST.	B/L NUMBER: 2047540	GAUGE: 0.2500 IN		WIDTH: 48.500 IN	LENGTH: 144.500 IN	
SHIP TO:  COPPER & BRASS 1015 SAINT JEROME ST. MISHAWAKA, IN 46544 US				SOLD TO:  COPPER & BRASS SALES ATTN: ACCOUNTS PAYABLE P.O. Box 5116 SOUTHFIELD, MI 48086 US			

MHU 1779069: LOT 682597A0: 5 pieces  
MHU 1779153: LOT 682597A0: 22 pieces

### Certified Specifications

AMS 4045/RevK AMS-QQ-A-250/12/RevA ASTM B 209/Rev10 CMMP 025/RevU

Test Code: 1512

### Test Results:

LOT: 682597A0 CAST: 619 DROP: 01 INGOT: 1

Melted in USA  
(ASTM E8/B557)  
(EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T651	LT / 04 (Min:Max)	85.4 : 86.8 (589 : 598)	75.2 : 76.4 (519 : 527)	11.3 : 12.2

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.07	0.13	1.5	0.03	2.5	0.18	5.9	0.03	0.01	0.00	TOT 0.04

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
7075	MIN 0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	MAX 0.05
	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT 0.15

Aluminum Remainder

Plant Serial: 4331492

Kaiser Order Number: 1169391

Line Item: 2

Page 1 of 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403208960

CstAr

CstOr 259089

Wgt.: 45 LB

Date 06/12/2014

*John J. Zambetti*

# KAISER ALUMINUM FABRICATED PRODUCTS

## CERTIFIED TEST REPORT

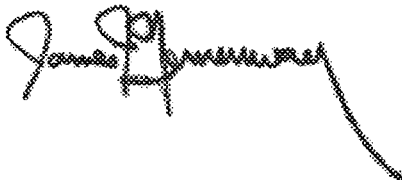
<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order: \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content. \* has been thermally processed in compliance with AMS 2772, where applicable. \* is mercury free, within the limits of detection of ASTM E1251 (<1ppm). \* is in compliance with RoHS 2, European Union Directive 2011/65/EU. \* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) 1907/2006. \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act. Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, LABORATORIES SUPERVISOR



Plant Serial: 4331492

Kaiser Order Number: 1169391

Line Item: 2

Page 2 of 2

From: ThyssenKrupp Materials NA

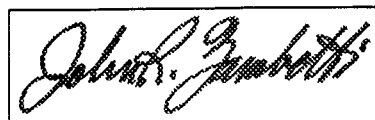
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403208960

CstAr

CstOr 259089

Wgt.: 45 LB

Date 06/12/2014



# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

CUSTOMER PO NUMBER: 5400219451-30		WORK PACKAGE:	CUSTOMER PART NUMBER: ALFLR01585-48		PRODUCT DESCRIPTION: Kaiser Stretched
KAISER ORDER NUMBER: 1171863	LINE ITEM: 3	SHIP DATE: 05/01/2014	ALLOY: 2024	CLAD: BARE	TEMPER: T3
WEIGHT SHIPPED: 3256 LB	QUANTITY: 58 PCS EST.	B/L NUMBER: 2047633	GAUGE: 0.0800 IN	WIDTH: 48.000 IN	LENGTH: 144.000 IN
SHIP TO:  COPPER & BRASS SALES 404 CENTURA COURT SPARTANBURG, SC 29303 US			SOLD TO:  COPPER & BRASS SALES ATTN: ACCOUNTS PAYABLE P.O. Box 5116 SOUTHFIELD, MI 48086 US		

MHU 1779564: LOT 684098A7: 58 pieces

### Certified Specifications

AMS 4037/RevP AMS-QQ-A-250/47RevA ASTM B 209/Rev10 CMMP 019/RevD CMMP 025/RevU

Test Code: 1504

### Test Results:

LOT: 684098A7 CAST: 674 DROP: 43 INGOT: 1

Melted in USA  
(ASTM E8/B557)  
(EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T3	LT / 02 (Min:Max)	63.3 : 65.6 (436 : 452)	43.5 : 44.6 (300 : 308)	18.2 : 18.6

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.25	4.4	0.56	1.3	0.01	0.18	0.02	0.01	0.00	TOT 0.04

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
2024	MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	MAX 0.05
	MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	TOT 0.15

Aluminum Remainder

Plant Serial: 4332114  
Kaiser Order Number: 1171863  
Line Item: 3

Page 1 of 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403208933

CstAr

CstOr 259089

Wgt.: 110.592 LB

Date 06/12/2014

*John L. Zumbatti*

# KAISER ALUMINUM FABRICATED PRODUCTS

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

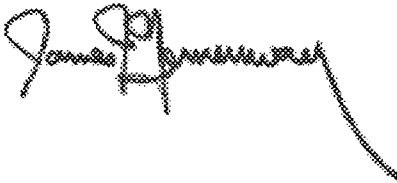
## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order: \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content. \* has been thermally processed in compliance with AMS 2772, where applicable. \* is mercury free, within the limits of detection of ASTM E1251 (<1ppm). \* is in compliance with RoHS 2, European Union Directive 2011/65/EU. \* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) 1907/2006. \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act. Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, LABORATORIES SUPERVISOR



Plant Serial: 4332114

Kaiser Order Number: 1171863

Line Item: 3

Page 2 of 2

From: ThyssenKrupp Materials NA

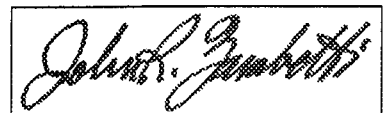
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403208933

CstAr

CstOr 259089

Wgt.: 110.592 LB

Date 06/12/2014



**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

\* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

\* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

\* Aluminum, in solid form and as contained in finished products presents no special health risk.

\* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ [www.copperandbrass.com](http://www.copperandbrass.com).



# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

CUSTOMER PO NUMBER: 5400222112-20		WORK PACKAGE:		CUSTOMER PART NUMBER: ALFLR01644		PRODUCT DESCRIPTION: HT Flat Sheet	
KAISER ORDER NUMBER: 1173240	LINE ITEM: 2	SHIP DATE: 06/06/2014	ALLOY: 6061	CLAD: BARE	TEMPER: T6		
WEIGHT SHIPPED: 10794 LB	QUANTITY: 417 PCS EST.	B/L NUMBER: 2048263	GAUGE: 0.0400 IN	WIDTH: 48.000 IN	LENGTH: 144.000 IN		
SHIP TO: COPPER & BRASS SALES 905 CARLOW DRIVE UNIT D BOLINGBROOK, IL 60490 US			SOLD TO: COPPER & BRASS SALES ATTN: ACCOUNTS PAYABLE P.O. Box 5116 SOUTHFIELD, MI 48086 US				

MHU 1786655: LOT 678151A2: 146 pieces  
MHU 1786656: LOT 678151A2: 125 pieces  
MHU 1788093: LOT 678151A2: 72 pieces  
LOT 678228A8: 74 pieces

*SM*  
*11/06/24*

### Certified Specifications

AMS 4027/RevN ASME SB 209/Rev2010 ASTM B 209/Rev10 CMMP 019/RevD CMMP 025/RevU

Test Code: 1511

### Test Results:

LOT: 678151A2 CAST: 027 DROP: 79 INGOT: 1

Melted in USA  
(ASTM E8/B557)  
(EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T6	LT / 02 (Min:Max)	46.7 : 47.1 (322 : 325)	39.8 : 40.2 (274 : 277)	12.3 : 12.5

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.70	0.5	0.31	0.10	1.1	0.19	0.08	0.03	0.01	0.00	TOT 0.04

LOT: 678228A8 CAST: 027 DROP: 75 INGOT: 2

Melted in USA  
(ASTM E8/B557)  
(EN 2002-1)

Tensile: Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
T6	LT / 02 (Min:Max)	46.4 : 47.1 (320 : 325)	39.6 : 40.1 (273 : 276)	12.4 : 12.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.71	0.5	0.30	0.10	1.1	0.20	0.08	0.03	0.01	0.00	TOT 0.05

Plant Serial: 4336089  
Kaiser Order Number: 1173240

Page 1 of 2

Line Item: 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403209419

CstAr

CstOr 259089

Wgt.: 108.380 LB

Date 06/12/2014

*John L. Zumbach*

# KAISER ALUMINUM FABRICATED PRODUCTS

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

## CERTIFIED TEST REPORT

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Chemistry:		SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
6061	MIN	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	MAX 0.05
	MAX	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.05	TOT 0.15
Aluminum Remainder												

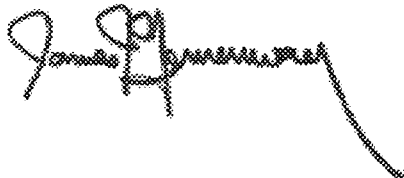
### Miscellaneous Notes

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS 4027 also meets applicable requirements of AMS-QQ-A-250/11, Rev. A.

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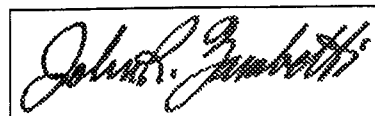
JAMES HEMENWAY, LABORATORIES SUPERVISOR



Plant Serial: 4336089  
Kaiser Order Number: 1173240  
Line Item: 2

Page 2 of 2

From: ThyssenKrupp Materials NA  
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403209419  
CstAr CstOr 259089  
Wgt.: 108.380 LB Date 06/12/2014



**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****1100 1350 3003 3004 3105 5005 5083 5086 5182 5454 6061 6063****"WARNING"**

SMALL CHIPS, FINE TURNINGS AND DUST MAY IGNITE READILY. EXPLOSIONPOTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUMARE IN CONTACT WITH CERTAINMETAL OXIDES; OR, CHIPS, FINES, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE. KEEP AWAY FROM IGNITION SOURCE. USE EXPLOSION- PROOF VENTILATION. KEEP MATERIAL DRY.

INHALING LARGE AMOUNTS OF COPPER, MAGNESIUM OXIDE, MANGANESE OXIDE, AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS. CHRONIC OVEREXPOUSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN; AND SKIN,TEETH,AND HAIR DISCOLORATION. CHRONIC OVEREXPOUSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO TIN DUST OR IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOUSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.

THIS PRODUCT ALSO CONTAINS LEAD AND CHROMIUM COMPOUNDS.LEAD IS KNOWN TO CAUSE REPRODUCTIVE TOXICITY AND IS A KNOWN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF INTHE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN. (CALIFORNIA PROPOSITION 65). IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.READ THE ALUMINUM/ALUMINUM ALLOYS MATERIAL SAFETY DATA SHEET(MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

\* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

\* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

\* Aluminum, in solid form and as contained in finished products presents no special health risk.

\* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone248-233-5600, or visit our web site @ [www.copperandbrass.com](http://www.copperandbrass.com).